273 Commerce Street
Williston, VT 05495
Website: www.epsofvermont.com

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC.
BURLINGTON VT DIVISION

PHONE: (802) 862-1212
FAX: (802) 860-7445
1-800-5SPILLS

SITE INVESTIGATION REPORT

SITE LOCATION:

Habif Residence
192 Skunk Hollow Road
Jericho, Vermont 05465

Site #: 2010-4091
44° 28'.555' N, 73° 01.207' W

CONTACT

Steve Habif
(802) 899-4563

PREPARED FOR:

Mr. Ashley Desmond
Vermont Department of Environmental Conservation
Waste Management Division
103 South Main Street, West Building
Waterbury, VT 05671-0404
(802) 862-1212

PREPARED BY:

Heather J. Wheel, Staff Scientist
Environmental Products & Services of Vermont, Inc.
273 Commerce Street
Williston, VT 05495
(802) 862-1212

October 11, 2010

Introduction

Environmental Products & Services of Vermont, Inc. (EPSVT) hereby presents this report detailing our Site investigation at the Habif residence located at 192 Skunk Hollow Road in Jericho, Vermont (**Figure 1**). The following attachments are included to aid in your review of this report:

Figure 1 ..... General Location Map;
Figure 2 ..... Groundwater Contour and Water Quality Map for October 14, 2010;
Table 1 ..... Groundwater Elevation Summary;
Table 2 ..... Well Headspace PID Assay Results;
Table 3 ..... Groundwater Quality Results;
Appendix A ..... Monitoring Well Installation Logs;
Appendix B ..... Laboratory Results; and
Appendix C ..... Scope of Work and Cost Estimate.

On July 08, 2010, EPSVT properly removed and disposed of a No. 2 Fuel Oil underground storage tank (UST) from the Habif property. Details of the UST removal can be found in our *UST Closure Assessment* submitted to the state of Vermont on August 4, 2010. Stained soil was found in the tank grave and was confirmed as contaminated volatile organic compounds (VOCs) assessment using a 10.6 eV photoionization detector (PID). A Site investigation was initiated via Expressway Notification. A copy of the Expressway Notification Form can be found with our UST Closure Assessment. The excavated soils were re-interred along with clean fill as per Vermont Department of Environmental Conservation (VDEC) instructions.

Environmental Products & Services of Vermont (EPSVT) of Williston, VT, installed four monitoring wells surrounding the former UST at the Habif property. A subsequent groundwater monitoring event showed groundwater contamination in the area of the former UST grave. Details of the monitoring well installation, subsequent groundwater monitoring and recommendations for further work are found in the following sections.

Soil Borings and Monitoring Well Installation

EPSVT conducted the installation of seven soil borings in the vicinity of the former UST at the Habif residence on September 15, 2010. The borings were performed using direct push technology at locations identified as MW-1 through MW-4 on **Figure 2**. As the borings were advanced, soils were descriptively logged and assayed for VOCs via the bag headspace method utilizing a properly calibrated 10.6 eV PID. Soil screening detected no presence of VOCs above background (<0.1 parts per million [ppm]). Drilling and well construction details are presented as **Appendix A**.

One-inch diameter schedule 40 PVC monitoring wells were installed in four of the seven borings upon their completion. The following observations were noted during monitoring well installation:

- The monitoring wells were installed to depths ranging from 11 to 12 feet below grade and were constructed of 0.010" slot, 1" diameter PVC well screen, solid riser, sand pack, bentonite seal, locking expansion plug, and protective roadbox set flush to grade.
- The borings of MW-1, MW-2, MW-3 and MW-4 evidenced no VOC detections above background levels at any depth assessed. No hydrocarbon odors were noted in any soil boring location.
- Soils observed were generally brown clay in all borings interspersed with silty loam. In all the soil borings more sandy loam was noted in the top portion of the boring. There appeared to be a thin layer of coarse sand and gravel on top of the more dense clay layer.
- The presence of moist to wet clay toward the bottom of the soil borings implied the elevation of the groundwater interface in all wells.

On October 14, EPSVT surveyed the property and well casings to create an accurate base map (**Figure 2**) with well top-of-casing elevations so that groundwater flow and gradient could be determined.

Groundwater Elevations

EPSVT performed a groundwater monitoring and sampling event at the Habif property on October 14, 2010. Groundwater levels in the wells were measured via Solinst interface probe, capable of measuring free product or water accurate to 0.01 foot. Free product was not encountered in any of the monitoring wells. Groundwater level data was converted to relative groundwater elevation based on well top-of-casing elevations. Groundwater elevation data are presented as **Table 1** and groundwater contours and flow direction are depicted on **Figure 2**.

PID Well Headspace Monitoring

Prior to groundwater elevation measurements, EPSVT assayed well headspace gases in the monitoring wells for concentrations of VOCs. A properly calibrated 10.6 eV PID was used and the data are presented in **Table 2**. VOC detections were noted in MW-1 at 0.3 ppm. VOC detections were detected in MW-2 at 0.2 ppm. VOC detections were detected in MW-3 at 0.3 ppm. There was no evidence of VOC detections above background levels in MW-4.

Water Quality Sampling

Following groundwater monitoring, samples were collected from each monitoring well using industry standard protocol. The groundwater monitoring wells were properly purged of three times their volume and allowed to recover to 90% of their static levels prior to sampling. Groundwater samples were collected with dedicated materials and sent on ice, to Phoenix Environmental Laboratories, Inc. of Manchester, Connecticut, for analysis via Methods 8021B. Analytes include benzene, toluene, ethylbenzene, total xylenes, 1,3,5-trimethylbenzene (TMB) and 1,2,4-TMB (reported as total TMBs), naphthalene, 1,2-dichloroethane, 1,2-dibromoethane, and methyl tertiary-butyl ether (MTBE).

A summary of the analytical results is presented as **Table 3** and a copy of the laboratory report is attached as **Appendix B**. Low level dissolved phase groundwater contamination was noted in MW-1 in the former UST grave. Ethylbenzene detected above laboratory limits at 3.8 ug/L and toluene detected above laboratory limits at 48 ug/L which are both below Vermont Groundwater Quality Enforcement Standards (GQES). 1,2-Dichloroehtane and 1,2-dibromoethane were not detected above laboratory detection limits. Target analytes were not present in any sample above the laboratory detection limits in any other monitoring well.

SENSITIVE RECEPTOR SURVEY

A survey was conducted within a one-half mile radius of the Habif residence to identify any potentially threatened or impacted sensitive receptors. Receptors assessed include water supplies, surface waters, wetlands, sensitive ecological areas, utility corridors and ambient air. The survey was conducted using the Vermont ANR internet mapping website (http://www.anr.state.vt.us/site/html/maps.htm), on-site observations and other resources.

The Habif residence is located in a light density residential community in Jericho, Vermont. The residence structure has two full stories and a half, unfinished basement with a cement foundation and slab. Local topography is relatively flat; the residence has been built up slightly, with the southeast lawn sloping down approximately 200 feet from end of driveway. No utility corridors were identified within the tank grave. All developed properties in the area are served by private wells and private wastewater arrangements.

There is no public surface water or groundwater supplies within the survey radius, and the property does not lie within any groundwater source protection areas. The Habif residence is served by a drilled bedrock well located approximately 70 feet west of the UST grave. Well details for Habif residence show total well depth of over 400 feet deep with 24 feet of casing. There are 30 wells in the Vermont Well Driller Reports mapped within the survey radius. The closest well was installed in 1998 and is mapped approximately 829 feet southwest of the UST grave. This well is reported to be 550 feet deep with 60 feet of casing, 36 feet of overburden and a yield of 6.5 gpm.

The only significant surface water in the area is Onion River which is approximately 300 feet southeast of the Habif residence. There are no Brownfields Sites located within the one- half mile radius of the survey. There are a total of 2 Class II wetlands within the survey radius. The closest wetland boundary is approximately 520 feet northeast of the tank grave. No significant natural communities or rare, threatened or endangered species are mapped within the survey radius.

As described by the Vermont Geological Survey, surficial materials in this area are predominantly Champlain Sea (Marine) silts and clays. Bedrock in the area is described as limestone/dolomite. Depth to bedrock is unknown, but per the Well Driller Reports is believed to be between 20 and 30 feet below grade. Groundwater was observed during excavation activities at 7 feet below grade.

Conclusions and Recommendations

Based on the collected and assimilated data, the following conclusions are drawn:

- An unknown amount of fuel oil was released to the environment at some time in the past as a result of corrosion found on a UST removed from the Habif residence. The UST grave was backfilled with the contaminated soil and clean fill and a Site investigation was initiated.
- Four groundwater monitoring wells were installed in an array around the backside of the residence near the former UST location in predominately fine silty loam and clay. During the October 14, 2010 groundwater monitoring and sampling event, low level dissolved phase petroleum contamination was detected only in the former UST grave. EPSVT believes that the groundwater monitoring well array provides sufficient definition of the degree of subsurface contamination at this spill site;
- Because of the low hydraulic conductivity of the soils (clay and silt), contamination will more likely degrade naturally in time in place before migrating beyond the property line or within an unsafe distance to any sensitive receptor. The indoor air of the Habif residence is a sensitive receptor but has not shown any evidence of elevated VOCs.

Based on these conclusions, EPSVT makes the following recommendations:

1. **Groundwater Monitoring and Sampling**

   EPSVT recommends performing a groundwater monitoring and sampling event in January of 2011. EPSVT will assay the well headspace gasses for VOCs via PID, measure depth to water and/or free product with an interface probe, and sample the wells using proper methodology. These samples will be analyzed via EPA Method 8021B for VOCs. EPSVT will also monitor the ambient indoor air of the Habif residence for the presence of VOCs.

2. **Water Quality Update Report**

   Upon receipt of the laboratory analytical reports for the groundwater samples, EPSVT will generate and submit a Water Quality Update Report detailing the results of our continued investigation. A site map including groundwater flow direction and gradient will be created and data on contaminant degree and extent will be presented. Appropriate conclusions will be drawn.

A cost estimate to perform these tasks is attached as **Appendix C**, and EPSVT looks forward to proceeding with this work plan with your approval. If you have any questions regarding this report or require more information, please do not hesitate to call me at (802) 862-1212 or email me at hwheel@epsofvermont.com.

Best regards,

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC.

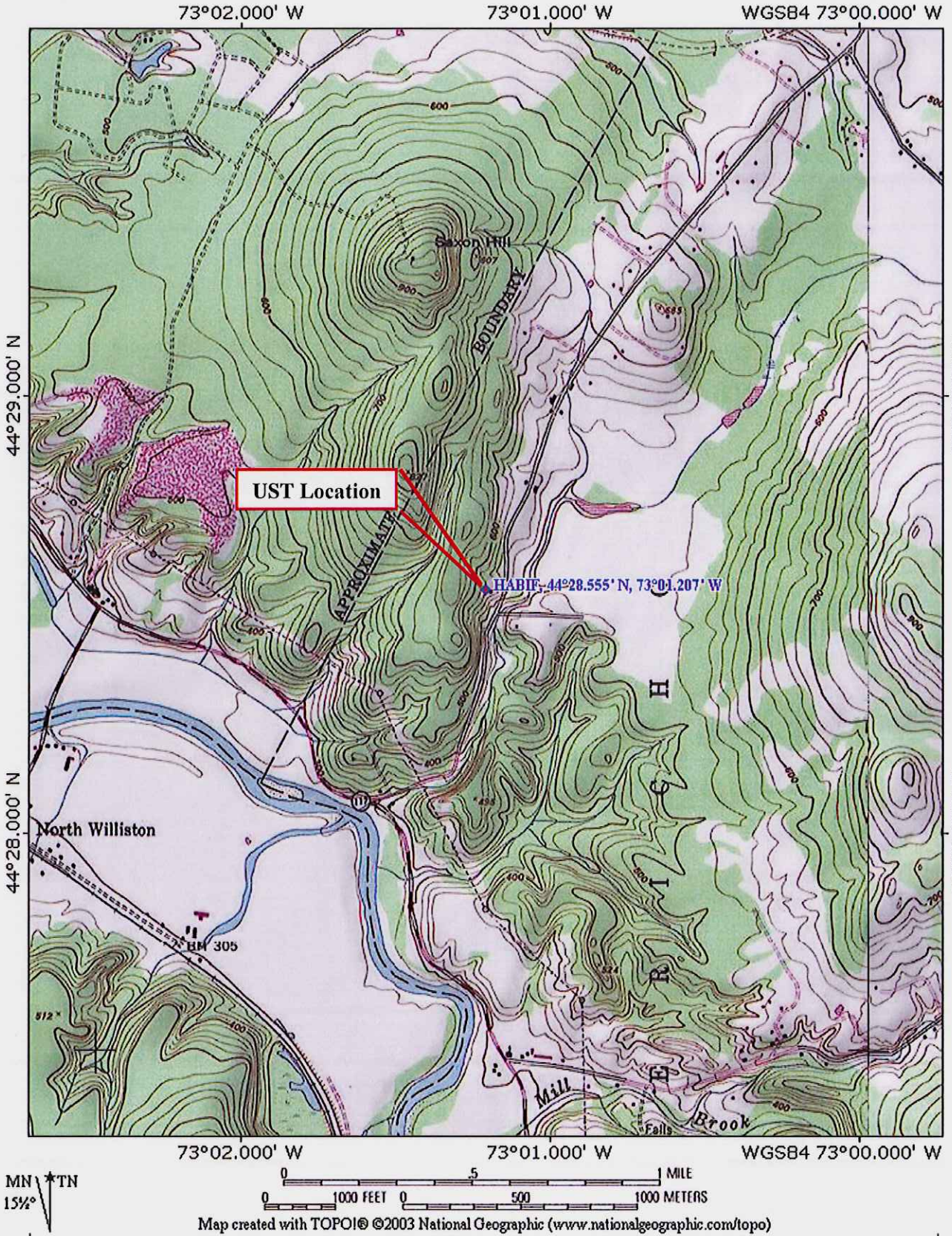
Heather J. Wheel

cc: Mr. and Mrs. Habif (Homeowners)
Mr. Ashley Desmond (VDEC)

Figure 1

General Location Map

TOPO! map printed on 07/26/10 from "Untitled.tpo"



Steve Habif Property
192 Skunk Hollow Road
Jericho, VT 05464

Legend

Installed Monitoring Wells

Drilled Well

Flow Line

Groundwater Contour Line

<0.3;<0.0
BTEX;MTBE (in ppb) Contaminant Concentrations

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC

Scale	Site Description	Project # v1380	Date 10/2010
1" Inch = 20 Feet	Habif Property 192 Skunk Hollow Road Jericho, VT	Map Title	Figure 2: Site Map

Table 1

Habif Property
Jericho, Vermont
VTDEC SMS Site # 2010-4091

Historical Summary of Groundwater Elevations

Data Point	TOC	Depth to Water	Elevations
MW-1	**95.51**	4.95	90.56
MW-2	**95.74**	4.68	91.06
MW-3	**95.75**	5.37	90.38
MW-4	**94.05**	7.39	86.66

Notes:
Measurements are in feet
Elevation datum assumed
Reference elevation TOC is elevation on top of PVC well casing
Shaded - dry well

Table 2

Habif Property
Jericho, Vermont
VTDEC SMS Site # 2010-4091

Historical Summary of Well Headspace PID Assay Results

Data Point	10/14/2010
MW-1	0.3
MW-2	0.2
MW-3	0.3
MW-4	BG

Notes:
Measurements are in parts per million
Results are for volatile organic compounds
BG = Background (<0.1 ppm)
SL = Saturated Lamp (>2000 ppm)

Table 3
Habif Property
Jericho, Vermont
VTDEC SMS Site # 2010-4091
Historical Summary of Water Quality Results

Data Point	Compound	GQES*	10/14/2010			
MW-1	Benzene	5	<2.0			
	Toluene	1,000	48.0			
	Ethylbenzene	700	3.8			
	Xylenes	10,000	<2.0			
	1,3,5- Trimethylbenzene	350 Total	<2.0			
	1,2,4-Trimethylbenzene					
	1,2-Dichloroethane	5	<2.0			
	1,2-Dibromoethane	0.05	<2.0			
	Naphthalene	20	<2.0			
	MTBE	40	<4.0			
	BTEX		51.8			
MW-2	Benzene	5	<1.0			
	Toluene	1,000	<1.0			
	Ethylbenzene	700	<1.0			
	Xylenes	10,000	<1.0			
	1,3,5- Trimethylbenzene	350 Total	<1.0			
	1,2,4-Trimethylbenzene					
	1,2-Dichloroethane	5	<1.0			
	1,2-Dibromoethane	0.05	<1.0			
	Naphthalene	20	<1.0			
	MTBE	40	<2.0			
	BTEX		<4.0			
MW-3	Benzene	5	<1.0			
	Toluene	1,000	<1.0			
	Ethylbenzene	700	<1.0			
	Xylenes	10,000	<1.0			
	1,3,5- Trimethylbenzene	350 Total	<1.0			
	1,2,4-Trimethylbenzene					
	1,2-Dichloroethane	5	<1.0			
	1,2-Dibromoethane	0.05	<1.0			
	Naphthalene	20	<1.0			
	MTBE	40	<2.0			
	BTEX		<4.0			
MW-4	Benzene	5	<1.0			
	Toluene	1,000	<1.0			
	Ethylbenzene	700	<1.0			
	Xylenes	10,000	<1.0			
	1,3,5- Trimethylbenzene	350 Total	<1.0			
	1,2,4-Trimethylbenzene					
	1,2-Dichloroethane	5	<1.0			
	1,2-Dibromoethane	0.05	<1.0			
	Naphthalene	20	<1.0			
	MTBE	40	<2.0			
	BTEX		<4.0			

Notes:
Measurements in ppb, except where noted
*GQES = Vermont Groundwater Quality Enforcement Standard

< = Contaminant not detected at specific limits
Bold = Exceeds GQES
Shaded = No Sample

Appendix A

MONITORING WELL INSTALLATION LOGS

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC	**Subsurface Log**	Hole No.: SB-1/MW-1 Sheet 1 of 1	Date started: 9/15/2010 Date Finished: 9/15/2010

Client: Steve Habif
Location: 192 Skunk Hollow Rd. Jericho, VT

Method of Investigation: Advance 2 1/4" diameter boring using 4-foot long macrocore sampler to ~8' below ground surface to boring termination. Continuous soil samples collected to target depth or refusal.

Project No.: V1380
Proj. Mgr: Heather Wheel
Geologist: Heather Wheel

Drilling Co. EPS of Vermont
Driller: Ron Marshall
Drill Rig: Geoprobe 54DT

Weather: Sunny, 60degrees

Depth (ft.)	Sample No.	Sample Depth (ft)	Blows /6"	"N"	Recovery (inches)	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
	1	0'-4'			18	Dark brown backfill to light brown fine sand, no petroleum odor	BG		
4	2	4'-8'			42	Light to medium brown fine sand and silt/grey clay, no petroleum odor	BG		Groundwater at approx. 7'
8	3	8'-10'				Bn, silty wet, to moist caly	BG		
12	4	10'-12'				Same as above			
16						1" Diameter MW installed @ 11' with 5' screen with 7' solids. Curb box was installed.			
20									
24									
28									

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = acetate sleeve
N = ASTM D1586

Backfill Well Key
Cement
Sand
Native Fill
Bentonite

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC	**Subsurface Log**	Hole No.: SB-2/MW-2 Sheet 1 of 1	Date started: 9/15/2010 Date Finished: 9/15/2010

Client: Steve Habif
Location: 192 Skunk Hollow Rd. Jericho, VT

Method of Investigation: Advance 2 1/4" diameter boring using 4-foot long macrocore sampler to ~8' below ground surface to boring termination. Continuous soil samples collected to target depth or refusal.

Project No.: V1380
Proj. Mgr: Heather Wheel
Geologist: Heather Wheel

Drilling Co. EPS of Vermont
Driller: Ron Marshall
Drill Rig: Geoprobe 54DT

Weather: Sunny, 60degrees

Depth (ft.)	Sample No.	Sample Depth (ft)	Blows /6"	"N"	Recovery (inches)	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
	1	0'-1'			10	Grass to grade, no petroleum odor			
	2	1'-4'			9	Bn sand to med. coarse sand, to dark bn moist soils	BG		
4	3	4'-8'			42	Moist to wet slity clay with some sm. Cobbles no petroleum odor	BG		Groundwater at approx. 7'
8	4	8'-10'				brown, silty wet, to moist caly	BG		
12	5	10'-12'				Same as above with moist clay to dense clay			
16						1" Diameter MW installed @ 10' with 5' screen with 7' solids. Curb box was installed.			
20									
24									
28									

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = acetate sleeve
N = ASTM D1586

Backfill Well Key
Cement
Sand
Native Fill
Bentonite

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC	**Subsurface Log**	Hole No.: SB-3 Sheet 1 of 1	Date started: 9/15/2010 Date Finished: 9/15/2010

Client: Steve Habif
Location: 192 Skunk Hollow Rd. Jericho, VT

Method of Investigation: Advance 2 1/4" diameter boring using 4-foot long macrocore sampler to ~8' below ground surface to boring termination. Continuous soil samples collected to target depth or refusal.

Project No.: V1380
Proj. Mgr: Heather Wheel
Geologist: Heather Wheel

Drilling Co. EPS of Vermont
Driller: Ron Marshall
Drill Rig: Geoprobe 54DT

Weather: Sunny, 60degrees

Depth (ft.)	Sample No.	Sample Depth (ft)	Blows /6"	"N"	Recovery (inches)	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
	1	0'-2'			10	Grass to grade, no petroleum odor			
	2	2'-4'			9	Dark brown sand, with med. size gravel	BG		
4	3	4'-8'			42	Moist bn silty sand no petroleum odor	BG		Groundwater at approx. 7'
8	4	8'-10'				Bn, slity wet, to moist	BG		
12	5	10'-12'				Same as above with moist clay w/grey tint			
16									
20									
24									
28									

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = acetate sleeve
N = ASTM D1586

Backfill Well Key
Cement
Sand
Native Fill
Bentonite

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC	**Subsurface Log**	Hole No.: SB-4 Sheet 1 of 1	Date started: 9/15/2010 Date Finished: 9/15/2010

Client: Steve Habif
Location: 192 Skunk Hollow Rd. Jericho, VT

Method of investigation: Advance 2 1/4" diameter boring using 4-foot long macrocore sampler to ~8' below ground surface to boring termination. Continuous soil samples collected to target depth or refusal.

Project No.: V1380
Proj. Mgr: Heather Wheel
Geologist: Heather Wheel

Drilling Co. EPS of Vermont
Driller: Ron Marshall
Drill Rig: Geoprobe 54DT

Weather: Sunny, 60degrees

Depth (ft.)	Sample No.	Sample Depth (ft)	Blows /6"	"N"	Recovery (inches)	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
	1	0'4'			18	Grass to grade, 1'-4' bn sand with sm. Pebbles/shale	BG		
4	2	4'-6'			42	same as above but with med. size shale no petroleum odor	BG		Groundwater at approx. 7'
	3	6'8'				bn to light bn moist silty sand			
8	4	8'-10'				bn, coarse sand with sm pebbles, mosit	BG		
	5	10'-12'				bn to light bn moist, to wet silty sand, turning into greyish clay/ dense clay			
12									
16									
20									
24									
28									

T= Shelby Tube: _____
acetate sleeve

Sample Types:
S=Split Spoon: _____
R= Rock Core: _____
O =
N = ASTM D1586

Backfill Well Key
Cement
Sand
Native Fill
Bentonite

EPS ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC	**Subsurface Log**	Hole No.: SB-5/MW-3 Sheet 1 of 1	Date started: 9/15/2010 Date Finished: 9/15/2010

Client: Steve Habif
Location: 192 Skunk Hollow Rd.
Jericho, VT

Method of Investigation: Advance 2 1/4" diameter boring using 4-foot long macrocore sampler to ~8' below ground surface to boring termination. Continuous soil samples collected to target depth or refusal.

Project No.: V1380
Proj. Mgr: Heather Wheel
Geologist: Heather Wheel

Drilling Co. EPS of Vermont
Driller: Ron Marshall
Drill Rig: Geoprobe 54DT

Weather: Sunny, 60degrees

Depth (ft.)	Sample No.	Sample Depth (ft)	Blows /6"	"N"	Recovery (inches)	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
	1	0-4'			18	dk bn to med bn fine sand with med. size stone to very fine sand.	BG		
4	2	4'-8'			42	Moist light bn with some stone till, to grey clay no petroleum odor	BG		Groundwater at approx. 7'
8	3	8'-10'				clay to fine sand, moist clay	BG		
	4	10'-12'				Same as above with moist clay to dense clay			
12						1" Diameter MW installed @ 11' with 5' screen with 7' solids. Curb box was installed.			
16									
20									
24									
28									

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = acetate sleeve
N = ASTM D1586

Backfill Well Key
Cement
Native Fill
Sand
Bentonite

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC	**Subsurface Log**	Hole No.: SB-6 Sheet 1 of 1	Date started: 9/15/2010 Date Finished: 9/15/2010

Client: Steve Habif
Location: 192 Skunk Hollow Rd. Jericho, VT

Method of Investigation: Advance 2 1/4" diameter boring using 4-foot long macrocore sampler to ~8' below ground surface to boring termination. Continuous soil samples collected to target depth or refusal.

Project No.: V1380
Proj. Mgr: Heather Wheel
Geologist: Heather Wheel

Drilling Co. EPS of Vermont
Driller: Ron Marshall
Drill Rig: Geoprobe 54DT

Weather: Sunny, 60degrees

Depth (ft.)	Sample No.	Sample Depth (ft)	Blows /6"	"N"	Recovery (inches)	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
	1	0'4'			18	Bn fine sand with sm cobbles	BG		
4	2	4'-6'			42	bn fine sand to very fine sand with cobbles no petroleum odor	BG		Groundwater at approx. 7'
	3	6'-8'				fine sand with med to large stones to moist clay			
8	4	8'-10'				bn moist silty clay	BG		
12	5	10'-12'				same as above turning into dense clay			
16									
20									
24									
28									

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = acetate sleeve
N = ASTM D1586

Backfill Well Key
Cement
Native Fill
Sand
Bentonite

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC	**Subsurface Log**	Hole No.: SB-7/MW-4 Sheet 1 of 1	Date started: 9/15/2010 Date Finished: 9/15/2010

Client: Steve Habif
Location: 192 Skunk Hollow Rd. Jericho, VT

Method of Investigation: Advance 2 1/4" diameter boring using 4-foot long macrocore sampler to ~8' below ground surface to boring termination. Continuous soil samples collected to target depth or refusal.

Project No.: V1380
Proj. Mgr: Heather Wheel
Geologist: Heather Wheel

Drilling Co. EPS of Vermont
Driller: Ron Marshall
Drill Rig: Geoprobe 54DT

Weather: Sunny, 60degrees

Depth (ft.)	Sample No.	Sample Depth (ft)	Blows /6"	"N"	Recovery (inches)	Sample Description	Field Analytical Readings	Well Details	Groundwater and Other Observations
	1	0-2'			10	dk bn sand with sm cobbles			
		2'-4'				light bn fine sand with med size stone	BG		
4	2	4'-6'			42	same as above no petroleum odor	BG		Groundwater at approx. 7'
8	3	6'-8'				bn to light bn fine sand, to silty sand			
	4	8'-10'				coarse sand moist	BG		
12	5	10'-12'				Same as above with moist to wet, silty sand			
						1" Diameter MW installed @ 11' with 5' screen with 7' solids. Curb box was installed.			
16									
20									
24									
28									

Sample Types:
S=Split Spoon: _____ T= Shelby Tube: _____
R= Rock Core: _____ O = acetate sleeve
N = ASTM D1586

Backfill Well Key
Cement
Native Fill
Sand
Bentonite

Appendix B

LABORATORY RESULTS

PHOENIX
Environmental Laboratories, Inc.

Wednesday, September 22, 2010

Attn: Jerry Howell
Environmental Products &
Services Of Vermont
273 Commerce Street
Williston, VT 05495

Project ID: STEVE HABLF
Sample ID#s: AZ56140

This laboratory is in compliance with the QA/QC procedures outlined in EPA 600/4-79-019, Handbook for Analytical Quality in Water and Waste Water, March 1979, SW846 QA/QC and NELAC requirements of procedures used.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH NELAC NY #11301

Analysis Report

October 22, 2010

FOR: Attn: Jerry Howell
Environmental Products & Services Of Vermont
273 Commerce Street
Williston, VT 05495

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	HW	10/14/10	11:35
Location Code:	EP&S-VT2	Received by:	LDF	10/18/10	10:37
Rush Request:	RUSH	Analyzed by:	see "By" below		
P.O.#:	7121				

Laboratory Data

SDG ID: GAZ66503
Phoenix ID: AZ66503

Project ID: STEVE HABLF
Client ID: MW-1

Parameter	Result	RL	Units	Date	Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
1,1,1-Trichloroethane	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
1,1,2,2-Tetrachloroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,1,2-Trichloroethane	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
1,1-Dichloroethane	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
1,1-Dichloroethene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
1,1-Dichloropropene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
1,2,3-Trichlorobenzene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
1,2,3-Trichloropropane	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
1,2,4-Trichlorobenzene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
1,2,4-Trimethylbenzene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
1,2-Dibromo-3-chloropropane	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
1,2-Dichlorobenzene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
1,2-Dichloroethane	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
1,2-Dichloropropane	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
1,3,5-Trimethylbenzene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
1,3-Dichlorobenzene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
1,3-Dichloropropane	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
1,4-Dichlorobenzene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
2,2-Dichloropropane	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
2-Chlorotoluene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
2-Hexanone	< 10	10	ug/L	10/19/10		R/L	SW8260
2-Isopropyltoluene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
4-Chlorotoluene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
4-Methyl-2-pentanone	< 50	50	ug/L	10/19/10		R/L	SW8260
Acetone	< 100	100	ug/L	10/19/10		R/L	SW8260

Project ID: STEVE HABLF
Client ID: MW-1

Phoenix I.D.: AZ66503

Parameter	Result	RL	Units	Date	Time	By	Reference
Acrylonitrile	< 20	20	ug/L	10/19/10		R/L	SW8260
Benzene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Bromobenzene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Bromochloromethane	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Bromodichloromethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Bromoform	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Bromomethane	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Carbon Disulfide	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Carbon tetrachloride	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Chlorobenzene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Chloroethane	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Chloroform	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Chloromethane	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
cis-1,2-Dichloroethene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
cis-1,3-Dichloropropene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Dibromochloromethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Dibromoethane	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Dibromomethane	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Dichlorodifluoromethane	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Ethylbenzene	3.8	2.0	ug/L	10/19/10		R/L	SW8260
Hexachlorobutadiene	< 0.80	0.80	ug/L	10/19/10		R/L	SW8260
Isopropylbenzene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
m&p-Xylene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Methyl ethyl ketone	< 250	250	ug/L	10/19/10		R/L	SW8260
Methyl t-butyl ether (MTBE)	< 4.0	4.0	ug/L	10/19/10		R/L	SW8260
Methylene chloride	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Naphthalene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
n-Butylbenzene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
n-Propylbenzene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
o-Xylene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
p-Isopropyltoluene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
sec-Butylbenzene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Styrene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
tert-Butylbenzene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Tetrachloroethene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Tetrahydrofuran (THF)	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Toluene	48	2.0	ug/L	10/19/10		R/L	SW8260
Total Xylenes	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
trans-1,2-Dichloroethene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
trans-1,3-Dichloropropene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
trans-1,4-dichloro-2-butene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Trichloroethene	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Trichlorofluoromethane	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Trichlorotrifluoroethane	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Vinyl chloride	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	106		%	10/19/10		R/L	SW8260
% Bromofluorobenzene	81		%	10/19/10		R/L	SW8260
% Dibromofluoromethane	108		%	10/19/10		R/L	SW8260
% Toluene-d8	118		%	10/19/10		R/L	SW8260

Project ID: STEVE HABLF
Client ID: MW-1

Phoenix I.D.: AZ66503

Parameter	Result	RL	Units	Date	Time	By	Reference

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
ND=Not detected BDL=Below Detection Level RL=Reporting Level
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 22, 2010

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY #11301

Analysis Report

October 22, 2010

FOR: Attn: Jerry Howell
Environmental Products & Services Of Vermont
273 Commerce Street
Williston, VT 05495

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:	HW	10/14/10	12:10
Location Code:	EP&S-VT2	Received by:	LDF	10/18/10	10:37
Rush Request:	RUSH	Analyzed by:	see "By" below		
P.O.#:	7121				

Laboratory Data

SDG ID: GAZ66503
Phoenix ID: AZ66504

Project ID: STEVE HABLF
Client ID: MW-2

Parameter	Result	RL	Units	Date	Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	10/19/10		R/L	SW8260
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,1-Dichloroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,1-Dichloroethene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,1-Dichloropropene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2,3-Trichlorobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2,3-Trichloropropane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2,4-Trichlorobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2,4-Trimethylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2-Dibromo-3-chloropropane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2-Dichlorobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2-Dichloroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2-Dichloropropane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,3,5-Trimethylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,3-Dichlorobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,3-Dichloropropane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,4-Dichlorobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
2,2-Dichloropropane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
2-Chlorotoluene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
2-Hexanone	< 5.0	5.0	ug/L	10/19/10		R/L	SW8260
2-Isopropyltoluene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
4-Chlorotoluene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
4-Methyl-2-pentanone	< 25	25	ug/L	10/19/10		R/L	SW8260
Acetone	< 10	10	ug/L	10/19/10		R/L	SW8260

Project ID: STEVE HABLF
Client ID: MW-2

Phoenix I.D.: AZ66504

Parameter	Result	RL	Units	Date	Time	By	Reference
Acrylonitrile	< 10	10	ug/L	10/19/10		R/L	SW8260
Benzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Bromobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Bromochloromethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Bromodichloromethane	< 0.50	0.50	ug/L	10/19/10		R/L	SW8260
Bromoform	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Bromomethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Carbon Disulfide	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Carbon tetrachloride	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Chlorobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Chloroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Chloroform	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Chloromethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	10/19/10		R/L	SW8260
Dibromochloromethane	< 0.50	0.50	ug/L	10/19/10		R/L	SW8260
Dibromoethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Dibromomethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Dichlorodifluoromethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Ethylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Hexachlorobutadiene	< 0.40	0.40	ug/L	10/19/10		R/L	SW8260
Isopropylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
m&p-Xylene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Methyl ethyl ketone	< 25	25	ug/L	10/19/10		R/L	SW8260
Methyl t-butyl ether (MTBE)	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Methylene chloride	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Naphthalene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
n-Butylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
n-Propylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
o-Xylene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
p-Isopropyltoluene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
sec-Butylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Styrene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
tert-Butylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Tetrachloroethene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Tetrahydrofuran (THF)	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Toluene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Total Xylenes	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
trans-1,3-Dichloropropene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
trans-1,4-dichloro-2-butene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Trichloroethene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Trichlorofluoromethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Trichlorotrifluoroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Vinyl chloride	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	107		%	10/19/10		R/L	SW8260
% Bromofluorobenzene	79		%	10/19/10		R/L	SW8260
% Dibromofluoromethane	105		%	10/19/10		R/L	SW8260
% Toluene-d8	119		%	10/19/10		R/L	SW8260

Project ID: STEVE HABLF
Client ID: MW-2

Phoenix I.D.: AZ66504

Parameter	Result	RL	Units	Date	Time	By	Reference

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

ND=Not detected BDL=Below Detection Level RL=Reporting Level

Phyllis Shiller, Laboratory Director
October 22, 2010

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY #11301

Analysis Report

October 22, 2010

FOR: Attn: Jerry Howell
Environmental Products & Services Of Vermont
273 Commerce Street
Williston, VT 05495

Sample Information

Matrix:	GROUND WATER
Location Code:	EP&S-VT2
Rush Request:	RUSH
P.O.#:	7121

Custody Information

		Date	Time
Collected by:	HW	10/14/10	12:50
Received by:	LDF	10/18/10	10:37
Analyzed by:	see "By" below		

Laboratory Data

SDG ID: GAZ66503
Phoenix ID: AZ66505

Project ID: STEVE HABLF
Client ID: MW-3

Parameter	Result	RL	Units	Date	Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	10/19/10		R/L	SW8260
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,1-Dichloroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,1-Dichloroethene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,1-Dichloropropene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2,3-Trichlorobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2,3-Trichloropropane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2,4-Trichlorobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2,4-Trimethylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2-Dibromo-3-chloropropane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2-Dichlorobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2-Dichloroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2-Dichloropropane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,3,5-Trimethylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,3-Dichlorobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,3-Dichloropropane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,4-Dichlorobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
2,2-Dichloropropane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
2-Chlorotoluene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
2-Hexanone	< 5.0	5.0	ug/L	10/19/10		R/L	SW8260
2-Isopropyltoluene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
4-Chlorotoluene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
4-Methyl-2-pentanone	< 25	25	ug/L	10/19/10		R/L	SW8260
Acetone	< 10	10	ug/L	10/19/10		R/L	SW8260

Project ID: STEVE HABLF
Client ID: MW-3

Phoenix I.D.: AZ66505

Parameter	Result	RL	Units	Date	Time	By	Reference
Acrylonitrile	< 10	10	ug/L	10/19/10		R/L	SW8260
Benzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Bromobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Bromochloromethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Bromodichloromethane	< 0.50	0.50	ug/L	10/19/10		R/L	SW8260
Bromoform	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Bromomethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Carbon Disulfide	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Carbon tetrachloride	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Chlorobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Chloroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Chloroform	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Chloromethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	10/19/10		R/L	SW8260
Dibromochloromethane	< 0.50	0.50	ug/L	10/19/10		R/L	SW8260
Dibromoethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Dibromomethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Dichlorodifluoromethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Ethylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Hexachlorobutadiene	< 0.40	0.40	ug/L	10/19/10		R/L	SW8260
Isopropylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
m&p-Xylene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Methyl ethyl ketone	< 25	25	ug/L	10/19/10		R/L	SW8260
Methyl t-butyl ether (MTBE)	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Methylene chloride	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Naphthalene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
n-Butylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
n-Propylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
o-Xylene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
p-Isopropyltoluene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
sec-Butylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Styrene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
tert-Butylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Tetrachloroethene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Tetrahydrofuran (THF)	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Toluene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Total Xylenes	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
trans-1,3-Dichloropropene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
trans-1,4-dichloro-2-butene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Trichloroethene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Trichlorofluoromethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Trichlorotrifluoroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Vinyl chloride	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	108		%	10/19/10		R/L	SW8260
% Bromofluorobenzene	78		%	10/19/10		R/L	SW8260
% Dibromofluoromethane	101		%	10/19/10		R/L	SW8260
% Toluene-d8	117		%	10/19/10		R/L	SW8260

Project ID: STEVE HABLF
Client ID: MW-3

Phoenix I.D.: AZ66505

Parameter	Result	RL	Units	Date	Time	By	Reference

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
ND=Not detected BDL=Below Detection Level RL=Reporting Level
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 22, 2010

PHOENIX
Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 22, 2010

FOR: Attn: Jerry Howell
Environmental Products & Services Of Vermont
273 Commerce Street
Williston, VT 05495

Sample Information

Matrix:	GROUND WATER
Location Code:	EP&S-VT2
Rush Request:	RUSH
P.O.#:	7121

Custody Information

		Date	Time
Collected by:	HW	10/14/10	13:30
Received by:	LDF	10/18/10	10:37
Analyzed by:	see "By" below		

Laboratory Data

SDG ID: GAZ66503
Phoenix ID: AZ66506

Project ID: STEVE HABLF
Client ID: MW-4

Parameter	Result	RL	Units	Date	Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,1,1-Trichloroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	10/19/10		R/L	SW8260
1,1,2-Trichloroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,1-Dichloroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,1-Dichloroethene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,1-Dichloropropene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2,3-Trichlorobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2,3-Trichloropropane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2,4-Trichlorobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2,4-Trimethylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2-Dibromo-3-chloropropane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2-Dichlorobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2-Dichloroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,2-Dichloropropane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,3,5-Trimethylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,3-Dichlorobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,3-Dichloropropane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
1,4-Dichlorobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
2,2-Dichloropropane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
2-Chlorotoluene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
2-Hexanone	< 5.0	5.0	ug/L	10/19/10		R/L	SW8260
2-Isopropyltoluene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
4-Chlorotoluene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
4-Methyl-2-pentanone	< 25	25	ug/L	10/19/10		R/L	SW8260
Acetone	< 10	10	ug/L	10/19/10		R/L	SW8260

Project ID: STEVE HABLF
Client ID: MW-4

Phoenix I.D.: AZ66506

Parameter	Result	RL	Units	Date	Time	By	Reference
Acrylonitrile	< 10	10	ug/L	10/19/10		R/L	SW8260
Benzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Bromobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Bromochloromethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Bromodichloromethane	< 0.50	0.50	ug/L	10/19/10		R/L	SW8260
Bromoform	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Bromomethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Carbon Disulfide	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Carbon tetrachloride	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Chlorobenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Chloroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Chloroform	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Chloromethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
cis-1,2-Dichloroethene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	10/19/10		R/L	SW8260
Dibromochloromethane	< 0.50	0.50	ug/L	10/19/10		R/L	SW8260
Dibromoethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Dibromomethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Dichlorodifluoromethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Ethylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Hexachlorobutadiene	< 0.40	0.40	ug/L	10/19/10		R/L	SW8260
Isopropylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
m&p-Xylene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Methyl ethyl ketone	< 25	25	ug/L	10/19/10		R/L	SW8260
Methyl t-butyl ether (MTBE)	< 2.0	2.0	ug/L	10/19/10		R/L	SW8260
Methylene chloride	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Naphthalene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
n-Butylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
n-Propylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
o-Xylene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
p-Isopropyltoluene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
sec-Butylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Styrene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
tert-Butylbenzene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Tetrachloroethene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Tetrahydrofuran (THF)	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Toluene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Total Xylenes	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
trans-1,2-Dichloroethene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
trans-1,3-Dichloropropene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
trans-1,4-dichloro-2-butene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Trichloroethene	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Trichlorofluoromethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Trichlorotrifluoroethane	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
Vinyl chloride	< 1.0	1.0	ug/L	10/19/10		R/L	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	109		%	10/19/10		R/L	SW8260
% Bromofluorobenzene	76		%	10/19/10		R/L	SW8260
% Dibromofluoromethane	104		%	10/19/10		R/L	SW8260
% Toluene-d8	117		%	10/19/10		R/L	SW8260

Project ID: STEVE HABLF
Client ID: MW-4

Phoenix I.D.: AZ66506

Parameter	Result	RL	Units	Date	Time	By	Reference

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
ND=Not detected BDL=Below Detection Level RL=Reporting Level
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 22, 2010

Appendix C

SCOPE OF WORK AND COST ESTIMATE

273 Commerce Street
Williston, VT 05495
Website: www.epsofvermont.com

ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC.
BURLINGTON VT DIVISION

PHONE: (802) 862-1212
FAX: (802) 860-7445
1-800-5SPILLS

November 19, 2010

Steve Habif
192 Skunk Hollow Road
Jericho, VT 05465

RE: Scope of Work and Cost Estimate – Monitoring Well Decommissioning
192 Skunk Hollow Road, Jericho, Vermont

Dear Mr. Habif:

Environmental Products & Services of Vermont, Inc. (EPSVT) hereby presents the following quotation for services to be performed in relation to on-site monitoring well decommissioning at 192 Skunk Hollow Road, Jericho, VT. EPSVT will provide all labor, materials and equipment necessary to perform the following:

SCOPE OF WORK

1. Monitoring Well Decommissioning

EPSVT will perform formal decommissioning of the on-site monitoring wells utilizing industry standards. The protective curb boxes and associated concrete will be removed from each location prior to monitoring well decommissioning. Subsequent to the decommissioning process, the surface will be treated with topsoil to return each site to preexisting conditions.

2. Summary Report

Subsequent to the completion of Site activities, EPSVT will generate a summary report including a formal request for closure of the site.

TASK 1 – Monitoring Well Decommissioning

Staff Scientist	6	hours	@ $	75.00	/hour	$	450.00
Light Duty Vehicle	25	miles	@ $	0.50	/mile	$	12.50
Decomm. Tooling	1	shift	@ $	150.00	/shift	$	150.00
Sand/Bentonite/Topsoil	1	unit	@ $	75.00	/unit	$	75.00
			ESTIMATED TOTAL TASK 1 -			$	687.50

TASK 2 – Site Summary Report

Project Scientist	4.0	hours	@ $	90.00	/hour	$	360.00
Draftsperson I	1.0	hours	@ $	60.00	/hour	$	60.00
Clerical	.5	hours	@ $	50.00	/hour	$	25.00
			ESTIMATED TOTAL TASK 3 –			$	445.00

TOTAL ESTIMATED COST	-	$ 1,132.50

This quotation is valid for 30 days from the above date and subject to verification thereafter. Applicable taxes are separate items. Standard payment terms are cash, check or Visa/MasterCard/American Express or phased billing with credit approval on net 30 days. Service charges may be imposed at 1.5% per month on all past due balances. The customer will be responsible for all costs of collection, including, but not limited to reasonable attorney's fees, court costs, and collection fee.

The customer agrees to indemnify, exonerate, and hold Environmental Products & Services of Vermont, Inc. harmless against loss, damage, or expense, by reasons of suits, claims, demands, judgments, and causes of action for personal injury, death, or property damage rising out of or in any way in consequence of the performance of all work undertaken by Environmental Products & Services of Vermont, Inc. except that in no instance shall the customer be held responsible for any liability claim demand or cause of action attributable solely to the negligence of Environmental Products & Services of Vermont, Inc.

If you are in agreement with this proposal, please sign below and return a copy for our files.

This proposal is understood and accepted:

By:_____ Date:_____

If you have any questions or require additional information, please contact me at (802) 862-1212, fax (802) 860-7445 or email me at hwheel@epsofvermont.com.

Sincerely,
ENVIRONMENTAL PRODUCTS & SERVICES OF VERMONT, INC.

Heather Wheel
Environmental Scientist
Burlington Division

Cc. Mr. Ashley Desmond, Vermont Department of Environmental Conservation